

**MULTIPLE SOURCE ALIGNMENT SENSOR WITH  
IMPROVED OPTICS**

ABSTRACT OF THE DISCLOSURE

Features of the present invention provide  
5 an optical layout that can accommodate the relatively  
strict enclosure requirements for compact component  
alignment sensor. Specifically, aspects of the  
present invention provide a single optical component  
that reduces the degree of divergence, and preferably  
10 substantially collimates light from the plurality of  
divergent light sources prior to entering the  
component zone. In this regard, part count is kept  
low and the physical size of the optical train itself  
is relatively small.

15